Acer LCD Monitor

User Guide

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Acer LCD Monitor User Guide
Original Issue: 1/2011

English

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Record the model number, serial number, purchase date and place of purchase information in the space provided below. The serial number and model number are recorded on the label affixed to your computer. All correspondence concerning your unit should include the serial number, model number and purchase information.

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Acer LCD Monitor User Guide

Model number: _____

Serial number: _____

Date of purchase: _____

Place of purchase: _____

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Information for your safety and comfort

Safety instructions

Read these instructions carefully. Keep this document for future reference. Follow all warnings and instructions marked on the product.

Special notes on LCD monitors

The following are normal with the LCD monitor and do not indicate a problem.

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the power switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD screen has 99.99% or more effective pixels. It may include blemishes of 0.01% or less such as a missing pixel or pixel lit all the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the power switch for a few hours.

Cleaning your monitor

Please carefully follow these guidelines when cleaning the monitor:

- Always unplug the monitor before cleaning.
- Use a soft cloth to wipe the screen and cabinet front and sides.

Accessibility

Be sure that the power outlet you plug the power cord into is easily accessible and located as close to the equipment operator as possible. When you need to disconnect power from the equipment, be sure to unplug the power cord from the electrical outlet.

Safe listening

To protect your hearing, follow these instructions.

- Gradually increase the volume until you can hear it clearly and comfortably and without distortion.
- After setting the volume level, do not increase it after your ears have adjusted.
- Limit the amount of time listening to music at high volume.
- Avoid turning up the volume to block out noisy surroundings.
- Turn the volume down if you can't hear people speaking near you.

Warnings

- Do not use this product near water.
- Do not place this product on an unstable cart, stand or table. If the product falls, it could be seriously damaged.
- Slots and openings are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
- Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind onto or into the product.
- To avoid damage of internal components and to prevent battery leakage, do not place the product on a vibrating surface.
- Never use it under sporting, exercising, or any vibrating environment which will probably cause unexpected short current or damage internal devices.
- The adapter is only used for this monitor, do not be used for other purposes.
- Your device uses one of the following power supplies:
  Manufacture : Hipro Electronics Co.,Ltd. Model:HP-A0301R3 (S220HQL Model)
  Manufacture : Delta Electronics Inc., Model: ADP-30MH B (S220HQL Model)
  Manufacture : Delta Electronics Inc., Model: ADP-40PH BB (S230HL Model)

Using electrical power

- This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.

- Do not allow anything to rest on the power cord. Do not locate this product where people will walk on the cord.
- If an extension cord is used with this product, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.
- Do not overload a power outlet, strip or receptacle by plugging in too many devices. The overall system load must not exceed 80% of the branch circuit rating. If power strips are used, the load should not exceed 80% of the power strip's input rating.
- This product's power cord is equipped with a three-wire grounded plug. The plug only fits in a grounded power outlet. Make sure the power outlet is properly grounded before inserting the power cord plug. Do not insert the plug into a non-grounded power outlet. Contact your electrician for details.

Warning! The grounding pin is a safety feature. Using a power outlet that is not properly grounded may result in electric shock and/or injury.

Note: The grounding pin also provides good protection from unexpected noise produced by other nearby electrical devices that may interfere with the performance of this product.

- Use the product only with the supplied power supply cord set. If you need to replace the power cord set, make sure that the new power cord meets the following requirements: detachable type, UL listed/CSA certified, type SPT-2, rated 7 A 125 V minimum, VDE approved or its equivalent, 4.6 meters (15 feet) maximum length.

Product servicing

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks. Refer all servicing to qualified service personnel.

Unplug this product from the wall outlet and refer servicing to qualified service personnel when:

- the power cord or plug is damaged, cut or frayed
- liquid was spilled into the product
- the product was exposed to rain or water
- the product has been dropped or the case has been damaged
- the product exhibits a distinct change in performance, indicating a need for service
- the product does not operate normally after following the operating instructions

Note: Adjust only those controls that are covered by the operating instructions, since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal condition.

Potentially explosive environments

Switch off your device in any area with a potentially explosive atmosphere and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust or metal powders.

Additional safety information

Your device and its enhancements may contain small parts. Keep them out of the reach of small children.

IT Equipment Recycling Information

Acer is strongly committed to environmental protection and views recycling, in the form of salvaging and disposal of used equipment, as one of the company's top priorities in minimizing the burden placed on the environment.

We at Acer are very conscious of the environmental effects of our business and strive to identify and provide the best working procedures to reduce the environmental impact of our products.

For more information and help when recycling, please go to this website:

http://www.acer-group.com/public/Sustainability/sustainability01.htm

Visit www.acer-group.com for further information on the features and benefits of our other products.

Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle. For more information on the Waste from Electrical and Electronics Equipment (WEEE) regulations, visit http://www.acer-group.com/public/Sustainability/sustainability01.htm

LCD pixel statement

The LCD unit is produced with high-precision manufacturing techniques. Nevertheless, some pixels may occasionally misfire or appear as black or red dots. This has no effect on the recorded image and does not constitute a malfunction.

This product has been shipped enabled for power management:

- Activate display's Sleep mode within 15 minutes of user inactivity.
- Activate computer's Sleep mode within 30 minutes of user inactivity.
- Wake the computer from Sleep mode by pushing the power button.

Tips and information for comfortable use

Computer users may complain of eyestrain and headaches after prolonged use. Users are also at risk of physical injury after long hours of working in front of a computer. Long work periods, bad posture, poor work habits, stress, inadequate working conditions, personal health and other factors greatly increase the risk of physical injury.

Incorrect computer usage may lead to carpal tunnel syndrome, tendonitis, tenosynovitis or other musculoskeletal disorders. The following symptoms may appear in the hands, wrists, arms, shoulders, neck or back:

- numbness, or a burning or tingling sensation
- aching, soreness or tenderness
- pain, swelling or throbbing
- stiffness or tightness
- coldness or weakness

If you have these symptoms, or any other recurring or persistent discomfort and/or pain related to computer use, consult a physician immediately and inform your company's health and safety department.

The following section provides tips for more comfortable computer use.

Finding your comfort zone

Find your comfort zone by adjusting the viewing angle of the monitor, using a footrest, or raising your sitting height to achieve maximum comfort. Observe the following tips:

- refrain from staying too long in one fixed posture
- avoid slouching forward and/or leaning backward
- stand up and walk around regularly to remove the strain on your leg muscles

Taking care of your vision

Long viewing hours, wearing incorrect glasses or contact lenses, glare, excessive room lighting, poorly focused screens, very small typefaces and low-contrast displays could stress your eyes. The following sections provide suggestions on how to reduce eyestrain.

Eyes

- Rest your eyes frequently.
- Give your eyes regular breaks by looking away from the monitor and focusing on a distant point.
- Blink frequently to keep your eyes from drying out.

Display

- Keep your display clean.
- Keep your head at a higher level than the top edge of the display so your eyes point downward when looking at the middle of the display.
- Adjust the display brightness and/or contrast to a comfortable level for enhanced text readability and graphics clarity.
- Eliminate glare and reflections by:
    - placing your display in such a way that the side faces the window or any light source
    - minimizing room light by using drapes, shades or blinds
    - using a task light
    - changing the display's viewing angle
    - using a glare-reduction filter
    - using a display visor, such as a piece of cardboard extended from the display's top front edge
- Avoid adjusting your display to an awkward viewing angle.
- Avoid looking at bright light sources, such as open windows, for extended periods of time.

Developing good work habits

Develop the following work habits to make your computer use more relaxing and productive:

- Take short breaks regularly and often.
- Perform some stretching exercises.
- Breathe fresh air as often as possible.
- Exercise regularly and maintain a healthy body.

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English

Declaration of Conformity

We,

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Tel: +39-02-939-921 ,Fax: +39-02 9399-2913
www.acer.it

Hereby declare that:

Product:	**LCD Monitor**
Trade Name:	**Acer**
Model Number:	**S220HQL; S230HL**
SKU Number:	**S220HQL xxxxxx ; S230HL xxxxxx ("x" = 0~9, a ~ z, A ~ Z, or blank)**

Is compliant with the essential requirements and other relevant provisions of the following EC directives, and that all the necessary steps have been taken and are in force to assure that production units of the same product will continue comply with the requirements.

EMC Directive 2004/108/EC as attested by conformity with the following harmonized standards:

-. EN55022, AS/NZS CISPR22 Class B.
-. EN55024
-. EN61000-3-2, Class D
-. EN61000-3-3

Low Voltage Directive 2006/95/EC as attested by conformity with the following harmonized standard:

-. EN60950-1

RoHS Directive 2002/95/EC on the Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment:

-. The maximum concentration values of the restricted substances by weight in homogenous material are:

Lead	0.1%	Polybrominated Biphenyls (PBB's)	0.1%
Mercury	0.1%	Polybrominated Diphenyl Ethers (PBDE's)	0.1%
Hexavalent Chromium	0.1%	Cadmium	0.01%

Directive 2009/125/EC with regard to establishing a framework for the setting of ecodesign requirements for energy-related product.

Year to begin affixing CE marking 2011.

Easy Lai

Easy Lai /Manager
Regulation, Acer Inc.

Jan. 28, 2011
Date

Acer America Corporation
333 West San Carlos St., San Jose
CA 95110, U. S. A.
Tel : 254-298-4000
Fax : 254-298-4147
www.acer.com

Federal Communications Commission Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The following local Manufacturer /Importer is responsible for this declaration:

Product:	LCD Monitor
Model Number:	S220HQL ; S230HL
SKU Number:	S220HQL xxxxxx ; S230HL xxxxxx ("x" = 0~9, a ~ z, A ~ Z or Blank)
Name of Responsible Party:	Acer America Corporation
Address of Responsible Party:	333 West San Carlos St. San Jose, CA 95110 U. S. A.
Contact Person:	Acer Representative
Phone No.:	254-298-4000
Fax No.:	254-298-4147

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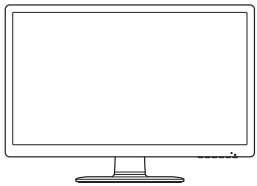
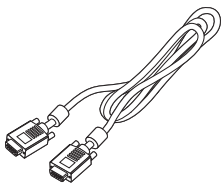
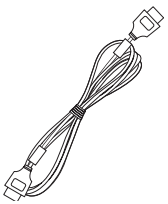
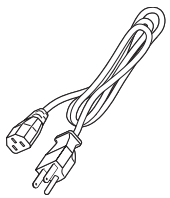
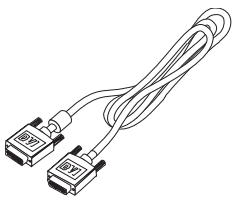
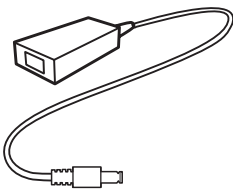
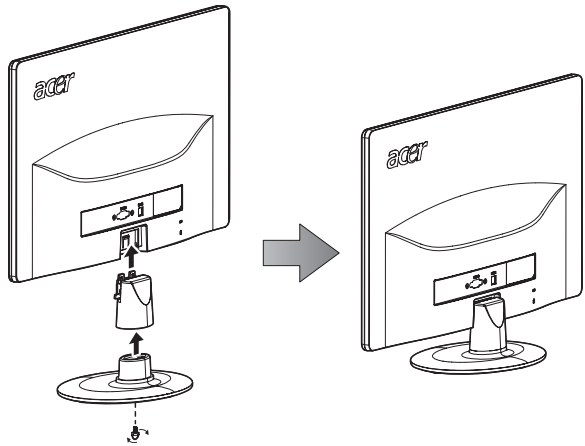
Unpacking

Please check that the following items are present when you unpack the box, and save the packing materials in case you need to ship or transport the monitor in the future.

LCD monitor	User guide	Quick start guide
		
D-sub cable	**HDMI cable (Optional)**	**AC Power cord**
		
DVI cable (Optional)	**AC Adapter**	
		

Attaching the base (for selected models)

Note: Remove the monitor and monitor base from its packaging. Carefully place the monitor face-down on a stable surface -- use a cloth to avoid scratching the screen.



1 Attach the monitor stand arm to the base.

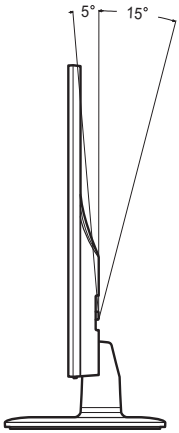
2 Ensure that the base is locked onto the monitor stand arm.

- Secure the base to the monitor stand arm by turning the white screw using the integrated tab or a suitable coin. (for selected models)

Note: Take care when performing the installation to avoid injuring yourself.

Screen position adjustment

To optimize the viewing position, you can adjust the monitor tilt, using both of your hands to hold the edges of the monitor. The monitor can be adjusted to 15 degrees up or 5 degrees down.



Connecting the adapter and AC Power cord

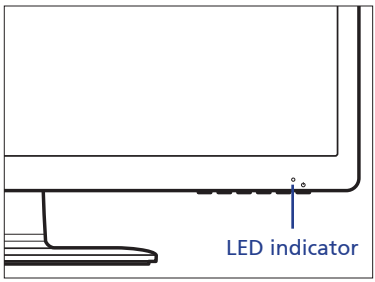
- Check first to make sure that the power cord you use is the correct type required for your area.
- The monitor has a universal power supply that allows operation in either 100/120 V AC or 220/240 V AC voltage area. No user-adjustment is required.
- Plug one end of the AC power cord to the Adapter, and plug the other end into an AC outlet.
- For units using 120 V AC:
  Use a UL-listed cord set, type SVT wire and plug rated 10 A/125 V.
- For units using 220/240 V AC:
  Use a cord set consisting of H05VV-F cord and plug rated 10 A/250 V. The cord set should have the appropriate safety approvals for the country in which the equipment will be installed.

Power saving

The monitor will be switched to “power saving” mode by the control signal from the display controller, as indicated by the blinking blue light.

Mode	LED light
On	Blue
Standby/Power saving	Blinking Blue

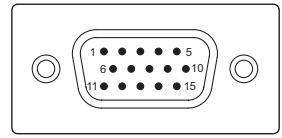
The power saving mode will be kept until a control signal has been detected or the keyboard or mouse is activated. The recovery time from “power saving” mode back to “on” is around 3 seconds.



Display Data Channel (DDC)

To make installation easier, so long as your system supports the DDC protocol, the monitor is able to plug-and-play. The DDC is a communication protocol through which the monitor automatically informs the host system about its capabilities; for example, supported resolutions and corresponding timing. The monitor supports the DDC2B standard.

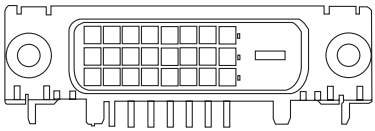
Connector pin assignment



15-pin color display signal cable

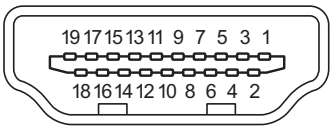
PIN No.	Description	PIN No.	Description
1	Red	9	+5 V
2	Green	10	Logic ground
3	Blue	11	Monitor ground
4	Monitor ground	12	DDC-serial data
5	DDC-return	13	H-sync
6	R-ground	14	V-sync
7	G-ground	15	DDC-serial clock
8	B-ground		

24-pin color display signal cable



PIN No.	Description	PIN No.	Description
1	TMDS data 2-	13	NC
2	TMDS data 2+	14	+5 V power
3	TMDS data 2/4 shield	15	GND (return for +5 V hsync.vsync)
4	NC	16	Hot-plug detection
5	NC	17	TMDS data 0-
6	DDC clock	18	TMDS data 0+
7	DDC data	19	TMDS data 0/5 shield
8	NC	20	NC
9	TMDS data 1-	21	NC
10	TMDS data 1+	22	TMDS clock shield
11	TMDS data 1/3 shield	23	TMDS clock+
12	NC	24	DDC TMDS clock-

19-pin color display signal cable



PIN No.	Description	PIN No.	Description
1	TMDS Data2+	2	TMDS Data2 Shield
3	TMDS Data2-	4	TMDS Data1+
5	TMDS Data1 Shield	6	TMDS Data1-
7	TMDS Data0+	8	TMDS Data0 Shield
9	TMDS Data0-	10	TMDS Clock+
11	TMDS Clock Shield	12	TMDS Clock-
13	CEC	14	Reserved (N.C. on device)
15	SCL	16	SDA
17	DDC/CEC Ground	18	+5V Power
19	Hot Plug Detect		

Standard timing table

No.	Mode	Resolution	Refresh Rate	
1	VGA	640x480	60	Hz
2		640x480	72	Hz
3	MAC	640x480	66.7	Hz
4	VESA	720x400	70	Hz
5	SVGA	800x600	56	Hz
6		800x600	60	Hz
7		800x600	72	Hz
8		1024x600	60	Hz
9	XGA	1024x768	60	Hz
10		1024x768	70	Hz
11	VESA	1152x864	75	Hz
12		1280x960	60	Hz
13	SXGA	1280x1024	60	Hz
14	VESA	1280x720	60	Hz
15	WXGA	1280x800	60	Hz
16		1360x768	60	Hz
17	WXGA+	1440x900	60	Hz
18	WSXGA+	1680x1050	60	Hz
19	UXGA	1600x1200	60	Hz
20	VESA	1920x1080	60	Hz

Installation

To install the monitor on your host system, please follow the steps below:

English

Steps

1 Connect the video cable

a Make sure both the monitor and computer are switched off.

b Connect the VGA video cable to the computer.

c Connect the digital cable

(1) Make sure both the monitor and computer are switched off.

(2) DVI Cable (Optional, only Dual-Input Model)

a. Make sure both the monitor and computer are powered-OFF.

b. Connect the DVI cable to the computer.

(3) HDMI Cable (Optional, only HDMI-Input Model)

a. Make sure both the monitor and computer are powered-OFF.

b. Connect the HDMI cable to the computer.

2 Connect the adapter

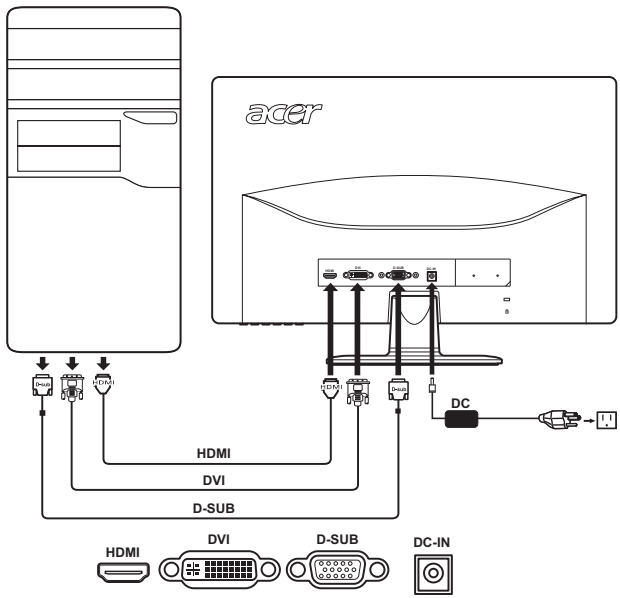
a Connect the AC cord to the adapter.

b Connect one end of the adapter to the monitor and the other end to a properly grounded, AC outlet.

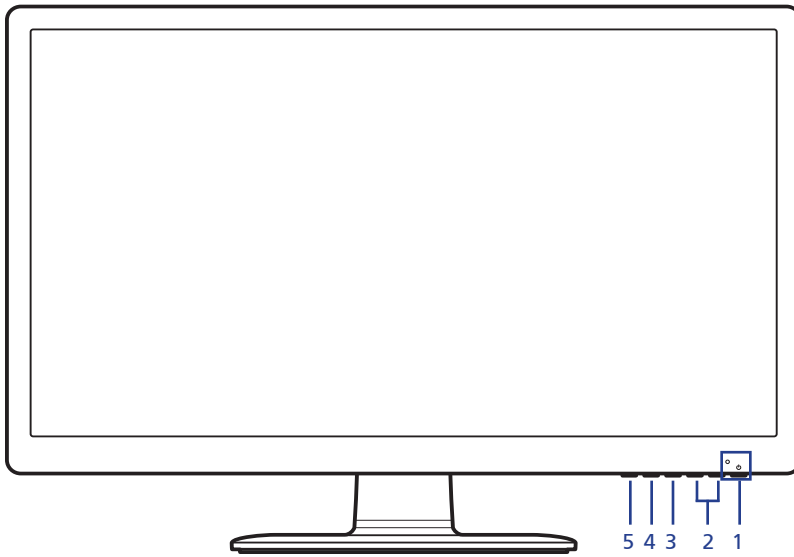
3 Turn on the monitor and computer

Turn on the monitor first, then the computer. This sequence is very important.

4 If the monitor does not function properly, please refer to the troubleshooting section to diagnose the problem.



Users controls



Panel controls

No.	Item	Description
1	Power button/ indicator	Turn the monitor on/off. Blue indicates power on. Blinking blue indicates standby/ power saving mode.
2	< / > button	Press the < / > button to navigate to the desired function, and press the **Menu** button to select the function. Press the < / > button to change the settings of the current function.
3	Menu/Enter button	Press to view the OSD menu. Press it again to enter a selection in the OSD menu.
4	Auto/Exit button	• When the OSD menu is active, press this button to exit the OSD menu. • When the OSD menu is inactive, press this button for two seconds to activate the Auto Adjustment function and the monitor will automatically optimize the display position, focus, and clock of your display.
5	Empowering Key	Press this button to open the Acer eColor Management OSD and access the scenario modes.

Using the Shortcut Menu

Press any of the function buttons (Empowering Key, **Auto** button, or **Menu** button) to open the shortcut menu. The shortcut menu lets you quickly select the most commonly accessed settings.

Icon	Item	Description
	Empowering	Press the Empowering Key to open the Acer eColor Management and access the scenario modes.
AUTO	Auto	Press the **Auto** button to activate the Auto Adjustment function and the monitor will automatically optimize the display position, focus, and clock of your display.
	Menu	Press the **Menu** button to activate the OSD menu.
	Volume	Press the **Volume** button to adjust volume. (Optional, only Audio-Input Model)
Input	Input	Press the **Input** button to select from different video sources that may be connected to your monitor. (Optional, only Dual-Input Model or HDMI-Input Model)

Acer eColor Management

Operation instructions

1 Press the Empowering Key to open the Acer eColor Management OSD menu and access the scenario modes.

2 Press the **<** / **>** button to select the desired mode.

3 Press the **Auto** button to confirm the selection and exit Acer eColor Management.

Features and benefits

Icon	Mode type	Description
	User mode	User-defined. Settings can be fine-tuned to suit any situation.
	ECO mode	Adjusts the settings to reduce power consumption.
	Standard mode	Default settings. Reflects native display capability.
	Graphic mode	Enhances colors and emphasizes fine detail. Pictures and photographs appear in vibrant colors with sharp detail.
	Movie mode	Displays scenes in clearest detail. Presents great visuals, even in unsuitably-lit environments.

Using the OSD Menus

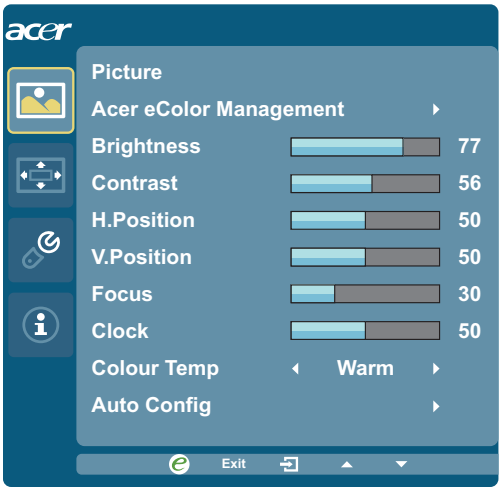
Note: The following content is for general reference only. Actual product specifications may vary.

Your LCD monitor is equipped with an on-screen display (OSD) menu for making various adjustments and settings.

Press the **Menu** button to open the OSD menu. You can use the OSD menu to adjust the picture quality, OSD timeout, and general settings.

Picture Menu

The Picture menu is used for adjusting the picture quality.



1 Press the **Menu** button to bring up the OSD menu.

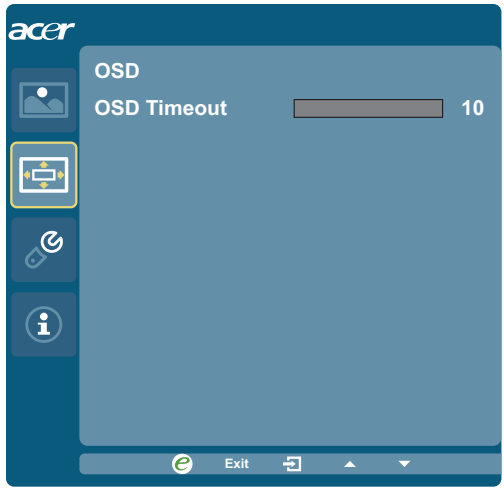
2 Press the **<** / **>** button to select **Picture** and press the **Menu** button to enter the **Picture** menu.
The following options are available in the **Picture** menu: Acer ecolor Management, Brightness, Contrast, H. Position, V. Position, Focus, Clock, Colour Temp, and Auto Config.

3 Press the **<** / **>** button to scroll through the **Picture** options, and press the **Menu** button to enter its sub-menu.

4 Press the **<** / **>** button to adjust/select the setting and press the **Auto** button to confirm.

OSD Menu

The OSD menu is used for adjusting the OSD timeout setting.



1 Press the **Menu** button to bring up the OSD menu.

2 Press the **<** / **>** button to select **OSD** and press the **Menu** button to enter the **OSD** menu.

3 To adjust the **OSD Timeout** setting, press the **Menu** button to enter its sub-menu.

4 Press the **<** / **>** button to select the desired time interval and press the **Auto** button to confirm.

Setting Menu

The Setting menu is used for adjusting the general settings for current input signal such as aspect ratio, OSD language, and etc.

1 Press the **Menu** button to bring up the OSD menu.

2 Press the **<** / **>** button to select **Setting** and press the **Menu** button to enter the **Setting** menu.
The following options are available in the **Setting** menu: Wide Mode, DDC/CI, ACM, Input, Language, and Reset.

3 Press the **<** / **>** button to scroll through the **Setting** options, and press the **Menu** button to enter its sub-menu.

4 Press the **<** / **>** button to adjust/select the setting and press the **Auto** button to confirm.

Information Menu

The Information menu displays the basic information of the LCD monitor.

1 Press the **Menu** button to bring up the OSD menu.

2 To view the basic information of the LCD monitor, press the **<** / **>** button to select **Information**.

Troubleshooting

Before sending your LCD monitor for servicing, please check the troubleshooting list below to see if you can self-diagnose the problem.

VGA Mode

Problem	LED status	Remedy
No picture visible	Blue	Using the OSD menu, adjust brightness and contrast to maximum or reset to their default settings.
	Off	Check the power switch. Check if the power cord is properly connected to the monitor.
	Blinking Blue	Check if the video signal cable is properly connected at the back of monitor. Check if the computer system is switched on and in power saving/standby mode.
Unstable picture	Blue	Check if the specification of graphics adapter and monitor is in compliance which may be causing the input signal frequency mismatch.
Abnormal picture (Image is missing, off-center, too large or too small on the screen.)	Blue	Using the OSD menu, adjust focus, clock, H-position and V-position with non-standard signals. Check the display setting on your system. In case of a missing image, please select another resolution or vertical refresh rate. Wait for a few seconds after adjusting the size of the image before changing or disconnecting the signal cable or switching off the monitor.

DVI/HDMI mode (Optional)

Problem	LED status	Remedy
No picture visible	Blue	Using the OSD menu, adjust brightness and contrast to maximum or reset to their default settings.
	Off	Check the power switch. Check if the AC power cord is properly connected to the monitor.
	Blinking Blue	Check if the video signal cable is properly connected at the back of monitor. Check if the computer system is switched on and in power saving/standby mode.